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Special Session on:

"New generation intelligent building platform techniques"

***Session Organisers*:**

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Description:

This special session introduces research progresses of new generation intelligent building platform techniques. The new generation intelligent building platform has the following key features that are missing in the traditional solutions: 1) it has built-in agent models for space units and control devices; 2) it has built-in link models for immediate connections between space units and control devices; 3) it assign a smart controller for each space unit or each control devices and these controllers communicate with each other according to the link models ; 4) it decompose various building operation/management commends into computing tasks that run on smart controllers and depends on the collaborations among neighbouring controllers to achieve the desired effects of the commends. Different from the traditional centralized solutions, this new architecture allows the building control systems to be developed in before the buildings are really built and simplifies the installation and configuration of the building control systems.

Objectives:

The aim of this special session is intended to seek the chance of exchanging recent achievements in new generation intelligent building platform techniques.

Original papers are welcome in architecture design, building data model, building operating system development, APP (application) development, typical applications, business opportunity analysis, etc.

Subject Coverage (not limited to)

- new architecture of building control systems based on Internet of Things (IoT).
- building data model and standardization.
- software and hardware for decentralized building operating systems.
- building control and management application development tools.
- decentralized control and optimization algorithms.
- decentralized building control and management applications.
- business opportunity analysis.